

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: Florida
DESCRIPTIVE REPORT.
Sheet No(D) 4436
LOCALITY:
Sound East
Coast of Flored
1924
CHIEF OF PARTY: FS Dorden

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET NO

(Field Letter D)

VICINITY OF ST. MARY'S
ENTRANCE
FLORIDA * GEORGIA

Steamer BACHE

F. S. Berden, Cond'g.

EXTENT

This sheet comprises the area in the vicinity of St. Mary's Entrance. It everlaps Sheet "C" to the southward, Sheet "E" to the northward and Sheet Ne. 3770 (R.F.Ince, 1915) to the eastward. The hydrography includes a resurvey of Amelia River up to the entrance of Lanceford Creek and practically all of Cumberland Sound. In general the work was carried up the inlets until a satisfactory junction was made with the elder surveys. In this connection it was found necessary to carry the work well up into Cumberland Sound as extensive changes were found to have taken place in this locality. In everlapping the effshore sheet (Sheet No. 3770) it was found that the lines on that sheet, having been spaced a mile apart, did not properly define the five fathom curve. For this reason the work was extended well to the eastward in order to leate the curve as it exists.

CHANGES

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The depth ever the St. Mary's Entrance bar was found about the same as shown in the present charts. The spit extending southeastward from the outer end of the North Jetty has been scoured away to some extent and there is new thirty one feet of water on the spit in the vicinity of Can busy No. 1. Due to this change it would seem that a Mun busy should be used here, at the outer end of the five fathem curve, instead of a Can busy. This change in the busy-age has been recommended by members of the St. Mary's Pilot association. The controlling depth to the Florida Terminal Co, whereas remains about the same but the sheal abrenst of the whereas has extended southeastward and there is barely enough width for a deep draft vessel to swing when docking.

Extensive changes have taken place in Gumberland Sound due to the shifting and changing in the shape and size of the small islands in this locality.

The entire inshere area on the outer coast south of the jetties has changed since the kast survey. This is no doubt partially due to the change in the litteral currents caused by the construction of the jetties.

OBSTRUCTIONS A rock pile cevered at half tide is located approximately 120 meters out from the high water mark in the vicinity of Old Fernandina.

are A considerable number of old piling, covered at high tide is located about three-eights of a mile west of the quarantine Station.

LAND NAMES The most prominent landmarks from the seaward are the Water Towers on Cumberland Island, Amelia Island Lighthouse and the tail Water Tower in Fernandina. It is recommended that these be shown on new charts Nos. 1242 and 1243. It is not believed that and objects other than these shown on the last edition of chart he. 453 should be shown on the harber charts.

Racks The rocks shown on the present addition of chart 453 just off the T South end of Cumberland 1. Were searched for but were not found.

Respectfully submitted.

7. S. Borden.

The only rock shown on the chart in the locality mantioned is the one shown on H-4436.

ALS.

Statistics Sheet Me......... (Field Sheet D)

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(: :: :: ou : of Field Records

Livinion of Allydrigraphy and a lopography:

Division of Charts:

Tide reducers are approved in solumes of sounding records for

HYDROGRAPHIC SHEET 4436

Locality: Vicinity Cumberland Sound, E. Coast of Florida

Chief of Party: F. S. Borden in 1924
Plane of reference is mean low water which is
4.4ft. on tide staff at Fernandina, Florida

For reduction of soundings, condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered wrong column.
- 7. Field reductions entered in "Office"column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tubeused not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarka".
- 12. Legibility of record could be improved.
- 13. Remarks

Chief, Division of Tides and Currents.

ADDRESS THE DIRECTOR U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 18, 1925.

REPORT ON VERIFICATION OF HYDROGRAPHIC SHEET NO. 4436

Paragraph 225 of the General Instructions was not followed in the spacing of soundings for this sheet.

There are very few bottom characteristics given in the sounding records and they were not plotted on the smooth sheet.

The sheet was well protracted but the time intervals were not carefully adhered to.

The beginning and ending of lines were not given in the records.

The least depth was not penciled on the smooth sheet at crossing of lines.

In several places a mean of two soundings were penciled on the smooth sheet rather than one of the soundings.

H. R. Edmonston.

AND REPER TO NO. 4-DPM

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DEPARTMENT OF COMMERCE

u. s. coast and geodetic survey

Washington July 17, 1925

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4436

Stafford Shoal to Amelia Island, Ga. - Fla.

Surveyed in 1924

Instructions dated May 8, 1924

Chief of Party, F. S. Borden.

Surveyed by F. S. Borden, W. D. Patterson and L. C. Wilder.

Protracted by L. C. Wilder, I. Rittenberg.

Soundings plotted by F. S. Borden, E. J. Brown.

Verified and inked by H. R. Edmonston.

- 1. The records do not conform to the requirements of the General Instructions in the following particulars:
 - (a) Beginnings and endings of lines were omitted.
 - (b) Bottom characteristics were not always noted. This is particularly true in the ship's work and that of Launch No. 1.
- 2. The plan and character of the survey conform to the requirements of the General Instructions except that soundings were usually taken at greater intervals than those prescribed in Paragraph 225 of the General Instructions.
- 3. The plan and extent of the survey satisfy the specific instructions $\sqrt{}$ with the following exceptions:
 - (a) One or two additional split lines should have been run across the bar at the entrance to Cumberland Sound.
 - (b) The area surrounding the 13 ft. sounding now shown on the charts about 1/4 mile S.S.W. of the Whistle Buoy should have been more closely developed. The least water found in this vicinity on the present survey is 18 feet.
 - (c) The development of St. Marys River was not extended to St. Mary.

- 4. The sounding line crossings are adequate.
- 5. The information is sufficient for drawing in the usual depth curves.
- 6. The usual field plotting was done by the field party. It was well done but the time intervals were not carefully adhered to. Also care was not always taken to plot the shoalest soundings at crossings, and in several places a mean of two soundings was penciled on the smooth sheet.
- 7. The junction with H. 4376 on the south (surveyed by the same party) is adequate.
 An adequate junction was effected with H. 3770 surveyed in 1915.
 In general very little change in the depths has taken place along this part of the coast.
 The junction with H. 4444 on the north will be taken up in the review of that sheet.
- 8. The character and scope of surveying are good. The field drafting is good.
- 9. Reviewed by A. L. Shalowitz, July, 1925.

Remarks:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

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Chief of party	State Florida - Georgia
Chief of party	General locality East Coast St. Marys Entrance and Vicinity Locality and Vicinity of the St. St. Marys Entrance and Vicinity
Date of survey	Chief of party Frank S. Borden
Scale	Surveyed by Frank S. Borden, W.D. Patterson, L. G. Wilder.
Plane of reference	Date of survey
Plane of reference	Scale 1/ 20,000
Erotracted by L.C. I. R. Soundings in pencil by F. J.	Soundings in Feet
Records accompanying sheet (check those forwarded): Des. report, Tide books, Wire-drag books, Photographs.	Plane of reference M. J. W
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Comments to a

applied to chart 453 reconstr. 8/14/57 m2 north of 30 451

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